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TRANSMITTAL FORM

(to be used for all correspondence after initial filing)

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| Application Number | 10/643,862 |
| Filing Date | August 19, 2003 |
| First Named Inventor | Michael J. Pugia, et al. |
| Art Unit | 1723 |
| Examiner Name | Tony Glen Soohoo |
| Attorney Docket Number | 017191.0036 |

Total Number of Pages in This Submission

ENCLOSURES (Check all that apply)

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|---|--|---|
| <input type="checkbox"/> Fee Transmittal Form <input type="checkbox"/> Fee Attached <input checked="" type="checkbox"/> Amendment/Reply <input type="checkbox"/> After Final <input type="checkbox"/> Affidavits/declaration(s) <input type="checkbox"/> Extension of Time Request <input type="checkbox"/> Express Abandonment Request <input type="checkbox"/> Information Disclosure Statement <input type="checkbox"/> Certified Copy of Priority Document(s) <input type="checkbox"/> Reply to Missing Parts/ Incomplete Application <input type="checkbox"/> Reply to Missing Parts under 37 CFR 1.52 or 1.53 | <input type="checkbox"/> Drawing(s) <input type="checkbox"/> Licensing-related Papers <input type="checkbox"/> Petition <input type="checkbox"/> Petition to Convert to a Provisional Application <input type="checkbox"/> Power of Attorney, Revocation <input type="checkbox"/> Change of Correspondence Address <input type="checkbox"/> Terminal Disclaimer <input type="checkbox"/> Request for Refund <input type="checkbox"/> CD, Number of CD(s) _____ <input type="checkbox"/> Landscape Table on CD | <input type="checkbox"/> After Allowance Communication to TC <input type="checkbox"/> Appeal Communication to Board of Appeals and Interferences <input type="checkbox"/> Appeal Communication to TC (Appeal Notice, Brief, Reply Brief) <input type="checkbox"/> Proprietary Information <input type="checkbox"/> Status Letter <input checked="" type="checkbox"/> Other Enclosure(s) (please identify below): Acknowledgement postcard |
|---|--|---|

Remarks

SIGNATURE OF APPLICANT, ATTORNEY, OR AGENT

| | |
|--------------|--------------------------|
| Firm Name | Kelley Drye & Warren LLP |
| Signature | <i>Harold N. Wells</i> |
| Printed name | Harold N. Wells |
| Date | May 14, 2007 |

Reg. No. 26,044

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Date 5/14/07

This collection of information is required by 37 CFR 1.5. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.11 and 1.14. This collection is estimated to 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

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PATENT

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

| | | | | | |
|---------------------|---|--------------------------------|---------------------|---|------|
| Application Number. | : | 10/643,862 | Confirmation Number | : | 5515 |
| Applicants | : | Michael J. Pugia et al. | | | |
| Filed | : | August 19, 2003 | | | |
| Title | | Mixing In Microfluidic Devices | | | |
| Art Unit | : | 1723 | | | |
| Examiner | : | Tony Glen Soohoo | | | |
| Docket Number | : | 017191.0036 | | | |
| Customer Number | : | 47670 | | | |

**AMENDMENT AND RESPONSE TO OFFICE ACTION
DATED February 12, 2007**

Mail Stop Amendment
Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

Sir:

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37 C.F.R. 1.8

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5/14/07 Deide Ebuhan
Date Signature

In response to the Office Action mailed February 12, 2007, please amend the above-identified application as follows:

Amendments to the Claims are reflected in the Listing of Claims which begins on page 2 of this paper.

Remarks/Arguments begin on page 9 of this paper.